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**Notice of Allowability**

Application No.

10/731,176

Examiner

Sam Rizk

Applicant(s)

SIDENBLAD ET AL.

Art Unit

2112

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/15/2007.
2. ☒ The allowed claim(s) is/are 1,3-5,9,13-15,22 and 26-35.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date See Continuation Sheet
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

*Signature*  
JACQUES LOUIS JACQUES  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

### **DETAILED ACTION**

- Response to the applicant's amendment dated 10/15/2007
- Claims 2, 6-8, 10-12, 16-21 and 23-25 have been Cancelled
- Amended claims 1, 3-5, 9, 13-15, 22 and 26-35 have been submitted for examination
- Amended claims 1, 3-5, 9, 13-15, 22 and 26-35 have been allowed

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record attached to this office. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

1. Authorization for this examiner's amendment was given in a telephone interview with attorney Stephanie Winner (Phone no. 713-623-4844) on 11/19/2007.
2. Replace claim 22 to read (Changes emphasized):
  - (Currently Amended): An apparatus for processing inbound and outbound frames, comprising:
    - a transmit engine configured to transmit outbound frames to a destination connection;
    - a receive engine configured to receive inbound frames from a destination connection;
    - a storage unit configured with a first table for storing delegated connection identification information, a second table for storing

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delegated connection state information, and a third table for storing memory location information, wherein each of the first, second and third tables is decoupled from one another so as to permit concurrent access of the first, second and third tables;

- means for initializing an entry in the first table with connection state data including a connection table index corresponding to a connection selected by a TCP stack executed by a host CPU for offload processing; means for determining a TCP checksum;
- means for obtaining the connection state data including a sequence number, a TCP timestamp, and an acknowledgement number for the selected connection from the second table; **and**
- means for constructing a frame for transmission at least partially responsive to the connection state data, the frame including a transmit sequence number and a transmit acknowledgement number that have been determined based on the sequence number and the acknowledgement number stored in the second table; **and**
- **means for outputting a frame including the TCP checksum, the transmit sequence number, the transmit acknowledgement number, the TCP timestamp, and the data segment for data transmission over the selected connection, wherein the TCP timestamp is equal to a TCP timestamp received from the TCP**

**stack if the TCP timestamp received from the TCP stack is greater than a TCP timestamp stored in the delegated connection.**

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

3. Applicant cancelled claims 6 and 23. Amended claims 1 and 22 to recite the limitations in claims 6 and 23. The Examiner amended of claim 22 to recite similar language as per claim 1.
4. Claims 6 and 23 have been allowable in the office action mailed on 8/27/2007.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Rizk whose telephone number is (571) 272-8191. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronics Business Center (EBC) at 866-217-9197 (toll-free)

Sam Rizk,

Examiner

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11/19/07

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